

CLAIMS

1. A mobile 3-part crusher assembly (10) of which a first part is a feeder section (11) for receiving a bulk support of material, a second part is a crusher section (12) to receive raw material from the feeder section, and a third part is a discharge section (13) to receive crushed material from the crusher section (12) and to discharge the crushed material to a required stockpile;

in which the first, second and third parts of the crusher assembly are detachably connectable to work together in a crushing mode, and to be separated from each other for individual handling and transport in a transport mode of the assembly.

2. A mobile 3-part crusher assembly (10) of which a first part is a feeder section (11) for receiving a bulk support of raw material, a second part is a crusher section (12) to receive raw material from the feeder section (11), and a third part is a discharge section (13) to receive crushed material from the crusher section (12) and to discharge the crushed material to a required stockpile:

in which the crusher section (12) is pivotally connected (14, 15) to the discharge section (13), and the feeder section (11) and the discharge section (13) are manoeuvrable independently of each other, so as to facilitate overall manoeuvrability of the assembly (10) on site.

3. A crusher assembly according to claim 1 or 2, in which the crusher section (12) has two separate articulated connections (14, 15) to the discharge section (13), defining pivot axes which extend approximately perpendicular to each other when the assembly is standing on level, horizontal ground.

4. A crusher assembly according to claim 3, in which a first articulation (15) allows relative transverse steering movement between the discharge section (13) and the remainder of the assembly (the crusher section (12) and the feeder section (11)) and a second articulation (14) (defining a transverse axis extending generally parallel to the ground and perpendicular to the direction of forward travel), allows relative upward or downward pivoting between the discharge section (13) and the remainder of the assembly (10), so as to follow undulations in the surface of the ground over which the assembly is travelling.

5. A crusher assembly according to any one of the preceding claims, in which each of the feeder section (11) and the discharge section (13) is supported by a respective pair of endless tracks (16, 17).

6. A crusher assembly according to claim 5, in which the endless tracks (16, 17) of the feeder section (11) and discharge section (13) are independently operable, and each section (11, 13) is provided with its own power source.

7. A crusher assembly according to any one of the preceding claims, in which the crusher section (12) includes a jaw-type crusher device (18, 19).

8. A crusher assembly according to any one of the preceding claims, in which the crusher section (12) is detachably coupled with the feeder section (11) via a rigid coupling (20, 21) which allows the crusher section (13) to be mounted in cantilever manner on the feeder section (11) to be movable therewith as a unit, for the purposes of:

- (a) loading and unloading the crusher section (12) with reference to a loading platform of a transport vehicle; and,
- (b) coupling and uncoupling the assembled unit of feeder section (11) and crusher section (12) relative to the discharge section (13) via a detachable coupling (14) between the crusher section (12) and the discharge section (13).

9. A crusher according to any one of the preceding claims, in which the crusher section (12), or the discharge section (13), includes one or more screening portion to separate crushed material into different size range(s).